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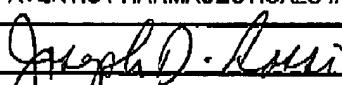
Total Number of Pages in This Submission

Application Number	10/719,080
Filing Date	November 21, 2003
First Named Inventor	Michael GRAUPE et al.
Art Unit	1626
Examiner Name	Anderson, R.L.
Total Number of Pages in This Submission	16
Attorney Docket Number	USA2001/0082 US CNT

ENCLOSURES (Check all that apply)

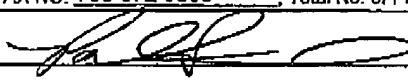
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Reply to Missing Parts/ Incomplete Application	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		
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Firm Name	AVENTIS PHARMACEUTICALS INC.		
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Printed name	Joseph ROSSI		
Date	May 18, 2005	Reg. No.	47038

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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete. Including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of
GRAUPE, et al.

Application No.: **10/719,080**

Filed: **November 21, 2003**

Title: **NOVEL COMPOUNDS AND
COMPOSITIONS AS CATHEPSIN
INHIBITORS**

Examiner: **Anderson, R.L.**

Art Unit: **1626**

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INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. 1.56, 1.97 AND 1.98

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Applicants submit herewith patents, publications, and other information of which they are aware, which they believe may be material, as defined in 37 C.F.R. 1.56(b), to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. 1.56(a). While the information referred to in this Information Disclosure Statement may be material pursuant to 37 C.F.R. 1.56(b), the filing of this Information Disclosure Statement is not intended to, pursuant to 37 C.F.R. 1.97(h), constitute an admission that any patent, publication or other information referred to is, or is considered to be, material to the patentability of this invention. Pursuant to 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information exists.

(a) This Information Disclosure Statement is filed within the period set forth in §1.97(b) because it accompanies the new patent application submitted herewith, is filed within three months of the filing date of a national application or within three months of the date of entry of the national stage as set forth in §1.491 in an international application, or is believed to be filed before the mailing date of a first Office Action on the merits, whichever event occurs last. However, in the event that the first office action has been mailed, the Commissioner is authorized to charge any fees under 37 C.F.R. 1.17(p) or credit any overpayment to Account No. **18-1982**.

(b) This Information Disclosure Statement is filed after the period set forth in 37 C.F.R. 1.97(b), but is believed to be filed before the mailing date of a final action under §1.113 or a notice of allowance under §1.311, whichever occurs first.

(1) The undersigned attorney certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement;

(2) The undersigned attorney certifies that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned attorney after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of this statement; or

(3) This Information Disclosure Statement is accompanied by a transmittal letter in which payment of the fee set forth in §1.17(p) and required by 37 C.F.R. 1.97(c) is authorized.

A concise explanation of the relevance of some or all of the items listed on the attached PTO-1449 (modified) is as follows:

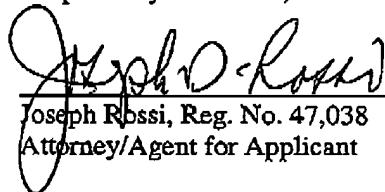
The items listed on pages 1 –13 of the attached PTO-1449 have been previously submitted to the Patent Office or cited by the Examiners during the prosecution of the following patents or patent applications commonly owned by the assignees of record of the present case:

U.S. Patent Nos. 6,576,630, 6,506,733, 6,455,502 and 6,492,362; and

U.S. Patent Application Nos. 10/035,783, 10/478,632, 10/787,367, 10/418,183 and 10/294,526.

Therefore, a copy of the reference is not enclosed with this Information Disclosure Statement. However, the applicant will furnish a copy of any listed reference, if so requested by the Examiner.

Respectfully submitted,



Joseph Rossi, Reg. No. 47,038
Attorney/Agent for Applicant

Aventis Pharmaceuticals Inc.
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Aventis Docket No. USAV2001/0082 US CNT

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/719,080
				Filing Date	11-21-2003
				First Named Inventor	GRAUPE
				Group Art Unit	1626
				Examiner Name	Anderson, Rebecca
Sheet	1	of	13	Attorney Docket Number	USA2001/0082 - US - CNT

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Paragraphs or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	4,927,809	STUBER, et al.	05-22-1990			
	5,424,325	ANDO, et al.	06-13-1995			
	5,486,623	ZIMMERMAN, et al.	01-23-1996			
	5,498,618	MALLANO, et al.	03-12-1996			
	5,847,135	BEMIS, et al.	12-08-1998			
	5,852,007	CHATTERJEE, et al.	12-22-1998			
	5,874,424	BATCHELOR, et al.	02-23-1999			
	5,998,390	RAMAMURTHY, et al.	12-07-1999			
	6,004,933	SPRUCE, et al.	12-21-1999			
	6,022,861	SCARBOROUGH, et al.	02-08-2000			
	6,114,310	CHAMBERLAND, et al.	09-05-2000			
	6,124,333	MILLER, et al.	12-26-2000			
	6,255,453	GYORKOS	07-03-2001			
	6,353,017	ALTMAN, et al.	03-05-2002			
	6,455,502	BRYANT, et al.	09-24-2002			
	6,478,026	BRYANT, et al.	11-05-2002			
	6,492,362	GRAUPE, et al.	12-10-2002			
	6,506,733	BUYSSE	01-14-2003			
	6,576,630	LINK, et al.	06-10-2003			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Paragraphs or Relevant Figures Appear
		Office ³	Number ⁴			
	EP	EP 0272671		KRANTZ, et al.	06-29-1988	
	EP	EP 0291234		EDWARDS, et al.	11-17-1998	
	EP	EP 0355572		PAQUES, et al.	02-28-1990	
	EP	EP 0376012		ALBRIGHT, et al.	07-04-1990	
	EP	EP 0419883		HARA, et al.	04-03-1991	
	EP	EP 0536398		OKUBO, et al.	04-01-1993	
	EP	EP 0652009		DOVEY, et al.	10-05-1995	
	EP	EP 0754454		KOBAYASHI, et al.	01-22-1997	
	JP	JP 06192199		RYOICHI, et al.	07-12-1994	
	JP	JP 42009133		IRIKURA, et al.	05-06-1987	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/719,080
				Filing Date	11-21-2003
				First Named Inventor	GRAUPE
				Group Art Unit	1628
				Examiner Name	Anderson, Rebecca
Sheet	2	of	13	Attorney Docket Number	USA2001/0082 - US - CNT

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

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Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴			
		JP	JP 63903868	YOSHIDA, et al.	12-08-1988	
		WO	WO 00/48992	TUCKER, et al.	08-24-2000	
		WO	WO 00/49007	TUCKER, et al.	08-24-2000	
		WO	WO 00/49008	TUCKER, et al.	08-24-2000	
		WO	WO 00/51998	CYWIN, et al.	09-08-2000	
		WO	WO 00/59881	SINGH, et al.	10-12-2000	
		WO	WO 00/69855	QUIBELL, et al.	11-23-2000	
		WO	WO 01/09110	BEKKALI, et al.	02-08-2001	
		WO	WO 01/19796	GRAUPE, et al.	03-22-2001	
		WO	WO 01/19808	GRAUPE	03-22-2001	

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		Office ³	Number ⁴	Kind Code ⁵ (If known)			
		WO	WO 01/19818		EMMANUEL, et al.	03-22-2001	
		WO	WO 01/30772		TUCKER, et al.	05-03-2001	
		WO	WO 01/55125		BOZSING, et al.	08-02-2001	
		WO	WO 01/58886		MISSBACH, M	08-18-2001	
		WO	WO 95/13069		MORRIELLO, et al.	05-18-1995	
		WO	WO 95/15309		JENKINS, et al.	06-08-1995	
		WO	WO 95/24382		HALLINAN, et al.	09-14-1995	
		WO	WO 96/21655		PEET, et al.	07-18-1996	
		WO	WO 96/30353		PALMER, et al	10-03-1996	
		WO	WO 96/40647		ZIMMERMAN, et al.	12-19-1996	

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		Office ³	Number ¹	Kind Code ⁴ (if known)		
	WO	WO 96/40744		MARLOWE, et al.	12-19-1996	
	WO	WO 96/41638		DOLLE, et al.	12-27-1996	
	WO	WO 97/03679		MALLANO, et al.	02-08-1997	
	WO	WO 98/01133		AJBE, et al.	01-15-1998	
	WO	WO 98/01428		DOMINGUEZ, et al.	01-15-1998	
	WO	WO 98/05336		MARQUIS, et al.	02-12-1998	
	WO	WO 98/08802		YAMASHITA, et al.	03-05-1998	
	WO	WO 98/08867		SHIONOGI, et al.	03-05-1998	
	WO	WO 98/21188		PRESTON, et al.	05-22-1998	
	WO	WO 98/23588		FLOYD, C.	06-04-1998	

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Sheet	6	of	13	Filing Date	11-21-2003
				First Name of Inventor	GRAUPE
				Group Art Unit	1626
				Examiner Name	Anderson, Rebecca
				Attorney Docket Number	USA2001/0082 - US - CNT

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		ADAMS, et al., Potent and Selective Inhibitors of the Proteasom: Dipeptidyl Boronic Acids, Bioorganic & Medicinal Chemistry Letters, 8: 333-338 (1998).
		ASHWORTH, et al., 4-Cyanothiazolidides as very potent, stable inhibitors of dipeptidyl peptidase IV, Bioorganic & Med. Chem. Letters, B.Oxford, 6(22):2745-2748 (1996).
		BERGEMAN, et al., Studies on the reactivity of .alpha.-cyano.alpha.-isocyano alkanoates. Versatile synths for the assembly of imidazoles, Helv.Chim. ACTA, 82(8):909-918 (1999).
		BILLSON, et al., The Design and Synthesis of Inhibitors of the Cysteinyl , Bioorg. Med. Chem. Lett. vol. 8, pp. 993-998, 1998
		BROMME, et al., Potent Inactivation of Cathepsins S and L , Biol. Chem. Hoppe-Seyler. vol. 375, No. 5, pp. 343-347, 1994.
		CHATTERJEE, et al., D-Amino Acid Containing, High-Affinity Inhibitors of Recombinant Human Calpain I, Journal of Medicinal Chemistry, vol. 41, No. 15, p: 2663-2666 (1998).
		COHEN, et al., Therapy of relapsing multiple sclerosis. Treatment approaches for nonresponders, Journal of Neuroimmunology, 98: 29-36 (1999).
		DUFOUR, et al., Engineering nitrile hydratase activity into a cysteine protease by a single mutation, Biochemistry, US, Am. Chem. Soc., Easton, PA, 34(50):16382-16388 (1995).
		EDWARDS, et al., Design, Synthesis, and Kinetic Evaluation of a Unique Class of Elastase Inhibitors, the Peptidyl a-Ketobenzoxazoles, and the X-ray Crystal Structure of the Covalent Complex between Porcine Pancreatic Elastase and Ac-Ala-Pro-Val-2-Benzoxazole, Journal of American Chemical Society, vol. 114, No. 5, p 1854-1863 (1992).
		EVOLI, et al., abstract only, Drugs, 1996, 52(5), 662-70

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Sheet	7	of	13	Filing Date	11-21-2003
				First Named Inventor	GRAUPE
				Group Art Unit	1626
				Examiner Name	Anderson, Rebecca
				Attorney Docket Number	USA2001/0082 - US - CNT

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		GOUR-SALIN, et al., Inhibition of papain by peptide nitriles: conversion of the nitrile group into other functionalities via the papain:nitrile thiomide ester adduct, Can. J. of Chem, CA, National Research Council, Ottawa, 69(8):1288-1297 (1991).			T ²
		HALLEGUA, et al., Cyclosporine for lupus membranous nephritis: experience with ten patients and review of the literature, Lupus, 9: 241-251 (2000).			
		HANZLIK, et al., Reversible covalent binding of peptide nitriles to papain, Biochim. Biophys. Acta, vol. 1035, No. 1, 1990, pp. 62-70.			
		HARRIS, et al., Characteristics of a continuous fluorogenic assay for calpain I. Kinetic evaluation of peptide aldehydes, halomethyl ketones and (achalasia) methyl ketones as inhibitors of the enzyme, Chemical Abstracts, 110:7, Bioorg. Med. Chem. Lett. 5(4) 393-398 (1995).			
		HEITMILLER, R.F., abstract only., Semin. Thorac. Cardiovasc. Surg., 1999, 11(1), 41-6			
		KATRITZKY, et al., Benzotriazole-assisted synthesis of alpha-(acylamino) nitrites and a conceptually novel method for peptide elongation, Chem. Soc., Perkin Trans. 1(7):1853-1857 (1990).			
		KHAMASHTA, et al., Expert. Opin. Investig. Drugs, 2000, 9(7), 1581-93.			
		KRANTZ, et al., Peptidyl (Acyloxy)methyl Ketones and the Quiescent, Biochemistry, vol. 30, pp. 4678-4687, 1991			
		LEVY, E.Q., Baillieres Clin. Endocrinol. Metab., 1997, 11(3) 585-595			
		LI, et al., Aminoacylpyrrolidine-2-nitriles: Potent and stable inhibitors of dipeptidyl-peptidase IV (CD 26), Archives of Biochem. and Biophys., 323(1)148-154 (1995).			

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		LIPSHUTZ, et al., Chiral induction in originally racemic amino acids via 5-acyl and 5-acyloxyaminooxazoles, Isr. J. Chem. 27(1):49-58 (1986), abstract.	
		LIPSHUTZ, et al., Heterocycles as masked diamide/dipeptide equivalents. Formation and reactions of substituted 5-(acylamino)oxazoles as intermediates en route to the cyclopeptide alkaloids, Am. Chem. Soc., 105(26):7703-7719 (1983).	
		LIPSHUTZ, et al., Oxazolophanes as masked cyclopeptide alkaloid equivalents: cyclic peptide chemistry without peptide couplings, J. Am. Chem. Soc., 112(19):7032-7041 (1990).	
		MARQUIS, et al., Potent dipeptidylketone inhibitors of the cysteine protease cathepsin, Chemical Abstracts, 7:4 581-588 (1999).	
		MCMATH, et al., Direct dialkylation of peptide nitriles. Application of the synthesis of 1-amino cyclopropane-1-carboxylic acid (Acc)-containing dipeptides, Bull. Soc. Chim. Fr. 134(1):105-110 (1997).	
		MORIYA, et al., Synthesis and Hypolipidemic Activities of 5-Thienyl-4-oxazoleacetic Acid Derivatives.sup.1, J. Med. Chem., 29: 333-341 (1986).	
		MOSER, et al., 130 Poly (dipeptamidinium)-Salze: definition und methoden zur präparativen herstellung. poly (dipeptamidinium) salts: definition and methods of preparation, Helvetica Chimica ACTA, CH, Verlag, Basel 69:1224-1262 (1986).	
		NIPPON, K., Patent Abstracts of Japan, Publication No. 63301868, 019(137)(1988), abstract.	
		NORTH, et al., Synthetic studies towards cyclic peptides. Concise synthesis of thiazoline and thiazole containing amino acids, Tetrahedron, 46(24):8627-8290 (1990).	
		OGILVIE, et al., Peptidomimetic inhibitors of the human cytomegalovirus protease, Journal of Medicinal Chemistry vol. 40 No. 25 (1997).	

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		PICKEN, et al., Inhibition of bovine cathepsin B by amino acid-derived nitriles, Biochemical Society Transactions, vol. 18, No. 2, p:316 (1990).	
		PLIURA, et al., Comparative behavior of calpain and cathepsin B , Biochem. J. vol. 288, pp. 759-762, 1992	
		POLMAN, et al., Drug treatment of multiple sclerosis , BMJ, 321: 19-26 (2000).	
		RIESE, et al., Essential Role for Cathepsin S in MHC Class II-Associated Invariant Chain Processing and Peptide Loading, Immunity, 4: 357-366 (Apr. 1996).	
		SMITH, et al., New Inhibitors of Cysteine Proteinases, J. Am. Chem. Soc. vol. 110, No. 13, pp. 4429-4431, 1988	
		SUAVE, et al., Carboxylmodified amino acids and peptides, I An efficient method for the synthesis of monofunctionalized enamines and monofunctionalized methyl ketone derivatives from thioamides via episulfides and thioiminium salts, Tetrahedron Lett, 29:19 2295-2298 (1988).	
		SUZUE, S., Hepatic agents. I. Synthesis of aminocyl (and hydroxyacyl) aminoacetonitriles, Chem. and Pharm. Bull. (Tokyo) (1968), 16(8), 1417-32.	
		SUZUE, et al., Studies on Heptio Agents , Chem. Pharm. Bull. vol. 16, No. 8, pp. 1417-1432, Aug. 1968.	
		SUZUKI, et al., Synthesis of 2-Aryl-4-(3-thienyl)imidazole Derivatives with Antinflammatory Properties .sup.1), Chem. Pharm. Bull, 34(8): 3111-3120 (1996).	
		TAO, et al., Inhibition of Calpain By Peptidyl Heterocycles, Bioorganic & Medicinal Chemistry Letters, 6:24 3009-3112 (1996).	

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		THOMPSON, et al., Carboxyl-modified amino acids and peptides as protease inhibitors, J. Med. Chem., 29(1):104-111 (1986).
		TSUTSUMI, et al., Synthesis and Structure-Activity Relationships of Peptidyl α-Keto Heterocycles as Novel Inhibitors of Prolyl Endopeptidase, Journal of Medicinal Chemistry, vol. 37, No. 21, p 3492-3502 (1994).
		VARGHA, E., Peptide derivatives. VI. N-protected di- and tripeptide nitriles, Stud. Univ. Babes-Bolyai, Ser. Chem., 13(2):31-5 (English abstract of article in Romanian) (1968).
		VARGHESE, The structure and resonance Raman spectra-structure correlations for methyloxycarbonyl-L-phenylalanyl-L-alanine ethyl dithioester, Can. J. Chem., 64(8):1668-1673 (1986).
		YAMADA, et al., Studies of unusual amino acids and their peptides. IX. The synthetic study of bottromycins B1 and B2, Bul. Chem. Soc., Jpn. 51(3):878-89 (1978), abstract.
		, Derwent Abstract of Japanese Patent Application 06-192199 , (Jul. 12, 1994).

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		JP	JP 2001-011037	SATO, et al.	01-16-2001	
		JP	JP 2001-055366	SATO, et al.	02-27-2001	
		WO	WO00/59881	SINGH, et al.	10-12-2000	
		WO	WO01/09169	SINGH, et al.	02-08-2001	
		WO	WO02/057248	QUIBELL, et al.	07-25-2002	
		WO	WO02/057249	QUIBELL, M	07-25-2002	
		WO	WO02/057270	QUIBELL, M	07-25-2002	
		WO	WO02/096892	OHMOTO, et al.	05-30-2002	
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		CHAPMAN, et al., Emerging Roles for Cysteine Proteases in Human Biology, Ann. Rev. Physiol.; 1997; 59; pp.69-88.
		DRANOFF, et al., Cathepsin S Required for Normal MHC Class II Peptide Loading and Germinal Center Development, Immunity; 1999; 10; pp.197-206.
		FENWICK, et al., Diastereoselective Synthesis, Activity and Chiral Stability of Cyclic Alkoxyketone Inhibitors of Cathepsin K., Bioorg. Med. Chem. Lett.; 2001; 11(2); pp.199-202.
		FENWICK, et al., Solid-phase Synthesis of Cyclic Alkoxyketones, Inhibitors of the Cysteine Protease Cathepsin K., Bioorg. Med. Chem. Lett.; 2001; 11(2); pp.195-199.
		GREENSPAN, et al., Identification of Dipeptidyl Nitriles as Potent and Selective Inhibitors of cathepsin B Through Structure-based Drug Design, J. Med. Chem.; 2001; 44; pp.4524-4534.
		LOWE, et al., Kinetic Specificity in Papain-catalyzed Hydrolyses, Biochem. J.; 1971; 124(1); pp.107-115.
		MACIEWICZ, et al., A comparison of Four Cathepsins (B,L,N and S) with Collagenolytic Activity From Rabbit Spleen, Biochem J.; 1998; 256; pp.439-440.
		MARQUIS, et al., Azeanone-based Inhibitors of Human and Rat Cathepsin K., J. Med. Chem.; 2000; 44(9); pp.1380-1395.
		NAKAGAWA, et al., Impaired Invariant Chain Degradation and Antigen Presentation and Diminished Collagen-induced Arthritis in Cathepsin S-null Mice, Immunity; 1999; 10; pp.207-217.
		OTTO, et al., Cysteine Proteases and their Inhibitors, Chem. Rev.; 1997; 97; pp.133-171.

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